

A2LA Assessor Environmental Method Checklist

Fluoride Specific Ion

Item	Section 1 - Personnel	Reference	Yes-No or NA	
1.1	Does the analyst(s) interviewed meet the job description position requirements, training and qualifications for performing the test? Supervisor: _____ Technician: _____	(G25)6.1		

Item	Section 2 - Equipment & Facilities	Reference	Yes-No or NA	
2.1	Is the meter an expanded scale, digital pH meter (reading millivolts) or ion-selective meter?	(SM18)4500F-C,2.a(1992)		
2.2	Is the reference electrode a sleeve type electrode and not a fiber-tip reference electrode?	(SM18)4500F-C,2.b(1992)		
2.3	Are a magnetic stirrer and timer available for use?	(SM18)4500F-C,2.d(1992)		
2.4	Is the distillation apparatus available for use?	(SM18)4500F-B,2.a(1992)		

Item	Section 3 - Method	Reference	Yes-No or NA	
3.1	Is a fluoride buffer of high ionic strength in use?	(SM18)4500F-C,3.a(1992)		
3.2	Is the sample pH adjusted to between 5 and 9 before measurement?	(SM18)4500F-C,1.b(1992)		
3.3	Are the standards and samples at the same temperature for analysis?	(SM18)4500F-C,4.c(1992)		
3.4	Is the standard curve prepared with three standards and is the curve documented?	(SM18)4500F-C,4.a(1992)		
3.5	Is solution stirring done only during & after electrode immersion in the solution?	(SM18)4500F-C,4.c(1992)		
3.6	Are measurements and calibrations made by leaving the electrode immersed for 3 minutes?	(SM18)4500F-C,4.d(1992)		
3.7	Are samples for wastewater distilled prior to analysis or is comparability data of representative effluent samples available?	(CFR136)TbI-IB,fn6(1/94)		

	Section 4 - Sample Handling Practices		Yes-No	
--	---------------------------------------	--	--------	--

Fluoride Specific Ion (contd.)

Item		Reference	or NA	
4.1	Are wastewater samples collected in plastic and analyzed within 28 days?	(CFR136)TableII(1/94)		

Item	Section 5 - Quality Control Practices	Reference	Yes-No or NA	
5.1	Are the laboratory control standards externally supplied standards traceable to NIST with a concentration between 5 and 50 times the MDL or near sample ambient levels?	(SM18)1020B,3(1992)		
5.2	Is the laboratory control standard analyzed once each day of analysis or whenever known additions do not result in acceptable recovery?	(SM18)1020B,3(1992)		
5.3	Is the reagent blank analyzed for at least 5% of the sample load?	(SM18)1020B,4(1992)		
5.4	Are duplicates analyzed for at least 5% of the sample load?	(SM18)1020B,6(1992)		
5.5	Are sample spikes analyzed for at least 10% of the sample load?	(SM18)1020B,2(1992)		
5.6	Are known additions made between 5 and 50 times the MDL or between 1 and 10 times the ambient level (whichever is greater)?	(SM18)1020B,2(1992)		
5.7	Is the percent recovery for known additions between 80-120%?	(SM18)1020B,2(1992)		